

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-11. (Canceled)

12. (Previously presented) An isolated polypeptide comprising an alpha subunit of a Kv potassium channel, the polypeptide:

(i) forming, with at least one additional Kv alpha subunit, a Kv potassium channel having the characteristic of voltage-gating; and

(ii) comprising an amino acid sequence having at least 90% sequence identity to SEQ ID NO:3.

13. (Previously presented) The polypeptide of claim 12, wherein the amino acid sequence has at least 95% sequence identity to SEQ ID NO:3.

14. (Original) The polypeptide of claim 12, wherein the polypeptide has a molecular weight of between about 58 kD to about 68 kD.

15. (Canceled)

16. (Original) The polypeptide of claim 12, wherein the polypeptide has an amino acid sequence of SEQ ID NO:3.

17. (Original) The polypeptide of claim 12, wherein the polypeptide comprises an alpha subunit of a homomeric potassium channel.

18. (Previously presented) The polypeptide of claim 12, which comprises an alpha subunit of a heteromeric potassium channel.

19-38. (Canceled)